

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-14. (Canceled)

15. (Currently Amended) A method of treating injured brain or spinal cord cells comprising the steps of: transplanting cultured bone marrow cells into a central nervous tissue near the injured brain or spinal cord cells, wherein the cells are transplanted by way of intravascular injection, and ~~The method of claim 3,~~ wherein the location of intravascular injection is intraarterial, thereby generating new neurons at the location of transplantation of the bone marrow cells.

16. (Currently Amended) A method of treating injured brain or spinal cord cells comprising the steps of: transplanting cultured bone marrow cells into a central nervous tissue near the injured brain or spinal cord cells, wherein the cells are transplanted by way of intravascular injection, and ~~The method of claim 3,~~ wherein the location of intravascular injection is intravenous, thereby generating new neurons at the location of transplantation of the bone marrow cells.